PERMIT MODULE XII
CLOSURE

XII.A. CLOSURE PLAN MODIFICATION

XII.A.1. The closure plan shall be amended any time changes in operating plans or landfill design affect the closure plan.

XII.A.2. Amended closure plans shall be submitted to the department at least 180 days before the date the facility expects to begin construction activities related to closure.

XII.B. TIME ALLOWED FOR CLOSURE

The facility shall close each unit and install a final cover system in accordance with the timeframes specified in 9 VAC 20-81-140.B.1.e and 9 VAC 20-81-160.

XII.C. FINAL COVER SYSTEM

The landfill final cover design profile for the Top Deck Alternate Final Cover System 1 from top to bottom is as follows (top to bottom):

- 6-inch vegetative support layer;
- 18-inch protective cover soil layer;
- 8-ounce per square yard heat burnished non-woven geotextile cushion layer;
- 50-mil Micro DrainLiner® LLDPE geomembrane layer;
- Geosynthetic clay liner (GCL) layer; and
- Prepared intermediate cover subgrade layer.

The landfill final cover design profile for the Top Deck Alternate Final Cover System 2 from top to bottom is as follows (top to bottom):

- 6-inch vegetative support layer;
- 18-inch protective cover soil layer;
- 275-mil geomposite layer;
- 40-mil textured LLDPE geomembrane layer;
- Geosynthetic clay liner (GCL) layer; and
- Prepared intermediate cover subgrade layer.

The landfill final cover design profile for the Side Slope Alternate Final Cover System 1 from top to bottom is as follows (top to bottom):

- 6-inch vegetative support layer;
- 18-inch protective cover soil layer;

- 8-ounce per square yard heat burnished non-woven geotextile cushion layer;
- 50-mil Super Gripnet® LLDPE geomembrane layer; and
- 12-inch controlled subgrade layer.

The landfill final cover design profile for the Side Slope Alternate Final Cover System 2 from top to bottom is as follows (top to bottom):

- 6-inch vegetative support layer;
- 18-inch protective cover soil layer;
- 275-mil geocomposite layer;
- 40-mil textured LLDPE geomembrane layer; and
- 12-inch controlled subgrade layer.

XII.D. CLOSURE CERTIFICATION

XII.D.1. Following construction of the final cover system for each unit, certification, signed by a registered professional engineer, shall be submitted verifying that closure has been completed in accordance with the permit, approved plans, and specifications. A certification will be required for each capped landfill phase and shall include the results of the CQA/QC requirements under 9VAC20-81-130.Q.1.b.(6).

XII.D.2. Following the closure of all units, certification, signed by a registered professional engineer, shall be submitted verifying that closure has been completed in accordance with the requirements of 9VAC20-81-160.D.5.a. through 5.c., which require posting a sign at the facility entrance and erecting suitable barriers to prevent access; submitting a survey plat to the local land reporting authority; and recording a notation on the deed to the facility property.